DCM, LLP

RECEIVED 01/43 CENTRAL FAX CENTER

JUL 1 9 2004

-OFFICIAL

DALY, CROWLEY & MOFFORD, LLP

Telephone: 781-401-9988 Facsimile: 781-401-9966

FACSIMILE TRANSMITTAL SHEET

Including this transmittal sheet, document consists of ___43 _ pages.

Date: July 15 2004

Deliver To: Commissioner for Patents

From: Christopher S. Daly, Esq.

Company: U.S. PTO

Facsimile Number: 703-872-9306

Telephone Number:

MESSAGE

Re: U.S. Patent Application of Rafael Reif et al.

Application No.: 10/655,854

Entitled: MULTI-LAYER INTEGRATED SEMICONDUCTOR STRUCTURE

Filed On: September 5, 2003 DCM Case No.: MIT-136AUS

PLEASE CONFIRM RECEIPT OF THIS FACSIMILE TRANSMISSION.

THANK YOU.

STATEMENT OF CONFIDENTIALITY

The documents included with this facsimile transmittal sheet contain information which is confidential and/or privileged. The information is intended to be for the use of the addressee named on this transmittal sheet. If you are not the addressee, note that any disclosure, photocopying, distribution or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify us by telephone (collect) immediately so that we can arrange for the retrieval of the original documents at no cost to you.

IF THERE IS A PROBLEM WITH THIS TRANSMISSION, OR IF YOU DID NOT RECEIVE ALL PAGES, PLEASE CALL 781-401-9988, X31 AS SOON AS POSSIBLE

7814019966 DCM,

Under the Paperwork Reduction Act of 199	5. No person	U.S. Paten as are required to reapond to a collection	PTO/SB/21 (modified) (02-04 Approved for use through 07/31/2006, OMB 0651-005 t and Trademark Office; U.S. DEPARTMENT OF COMMERCE of Information unless it displays a valid OMB control number
	-	Application Number	10/655,854
TRANSMITTAL		Filing Date	September 5, 2003
FORM		First Named Inventor	Rafael Reif
(to be used for all correspondence after initis	l filing)	Art Unit	2811
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	42	Attorney Docket Number	MIT-136AUS
	ENC	LOSURES (Check all that	apply)
Fee Transmittal Form		Assignment Papers	After Allowance communication
Fee Attached	(for an Application)		to Technology Center (TC) Appeal Communication to Board
Lab Allachied		Drawing(s)	of Appeals and Interferences
Amendment/Reply	ا ال	icensing-related Papers	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
After Final	F	Petition	Proprietary Information
Affidavits/declaration(s)	Petition to Convert to a Provisional Application		Status Letter
Extension of Time Request		Power of Attorney, Revocation Change of Correspondence Address	Other Enclosure(s) (please identify below):
Express Abandonment Request		eminal Disclaimer	Return Postcard
Information Disclosure Statement	ıĦ,	Request for Refund	PTO SB/08A with Eight (8) References Cited
Certified Copy of Priority Document(s)			
Response to Missing Parts/		CD, Number of CD(s)	-
Incomplete Application	Remarks		
Response to Missing Parts under 37 CFR 1.52 or 1.53	In the ev provided	rent a petition for extension of I, such petition is hereby made leposit account No. 50-0845 for	time is required by this paper and not otherwise and authorization is provided herewith to or the cost of such extension.
SIGNA		F APPLICANT, ATTORNE	
Firm Christopher	S. Daly	Reg. No. 37,3	03
Individual name Daly, Crowley &			
Signature (M. to)	N	1, 204	
Date 19 TULO4			
C	ERTIFIC	ATE OF TRANSMISSION	MAILING
I hereby certify that this correspondence is t	eing facsin velope add	nile transmitted to the USPTO or of the USPTO or of the use of the	deposited with the United States Postal Service with 811. Commissioner for Patents, P.O. Box 1450,
Typed or printed name Christe	pher S	S. Daly	
Signature //	1 til	Me 17 Si	Date 19 JUL 04
gathering, preparing, and submitting the completed amount of time you require to complete this form an	application index pages 3. September 2015 3. September 2015 3. September 2015 4. September 2015 4. September 2015 4. September 2015 5. September 2015 5. September 2015 6. Sep	iii. 122 and 37 CPR 1.14. This dollection from to the USPTO, Time will yary september for reducing this burden, should the september 22313,1450, DO N	benefit by the public which is to file (and by the USPTO to n is estimated to 2 hours to complete, including anding upon the individual case. Any comments on the escat to the Chief Information Officer, U.S. Potom and OT SEND ESES OF CONDUCTION FOR THE PROPERTY TO THE

If you need assistence in completing the form, call 1-800-PTO-9199 and select option 2.

7814019966

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED **CENTRAL FAX CENTER**

Appl. No.

10/655,854

Confirmation No.: 7254

JUL 1 9 2004

Applicant

Rafael Reif et al. September 5, 2003

Filed T.C./A.U.

2811

Examiner

: Not Yet Assigned

Docket No.

: MIT-136AUS

Customer No.: 022494

OFFICIAL

Certificate of Mailing (37 C.F.R. 1.8(a))

I hereby certify that this correspondence is being transmitted via facsimile transmission to the: Mail Stop Amendment, Commissioner for Patents, P. 9-Box 1450 Alexandria, VA 22313-1450 on the date set forth below.

> Date of Signature and Fax Transmission

Christopher \$! Daly Reg. No. 37,303

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

It is desired to cite for the record in this application the enclosed documents listed on the attached copy of PTO form PTO/SB/08A (Formerly #1449). The paragraph(s) marked below are applicable to this Information Disclosure Statement.

The enclosed Information Disclosure Statement is being filed: within three [X] (1) months of the filing date; or within three months of the entry of the national stage of the aboveidentified application; or before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. Accordingly, Applicant(s) believes that no fee or statement is required.

Page 1 of 5

Docket No. MIT-136AUS

[] (2) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by the fee set forth in 37 C.F.R. § 1.17(p).

SUBMISSION UNDER 37 C.F.R. § 1.97(c) INCLUDING A STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

[] (3) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(c) INCLUDING A STATEMENT UNDER 37 C.F.R. § 1. 97(e)(2)

[] (4) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

Docket No. MIT-136AUS

SUBMISSION UNDER 37 C.F.R. § 1.97(c)

INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[] (5) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d) INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(1)

[] (6) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the accompanying Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d) INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(2)

[] (7) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to

Docket No. MIT-136AUS

any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d) INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[] (8) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy Rule 98(a) (3) even if in a foreign language, since the few terms of relevance therein are deemed of universal cognizance. However, Applicant(s) does not necessarily adopt the position reflected by that report.

7814019966

Docket No. MIT-136AUS

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 500845.

Dated: 1900L04

Respectfully submitted,

DALY, CROWLEY & MOFFORD, LLI

Christopher'S. Daly

Reg. No. 37,303
Attorney for Applicant(s)
275 Turnpike Street, Suite 101

Canton, MA 02021-2354 Tel.: (781) 401-9988, ext. 11

Fax: (781) 401-9966 csd@dc-m.com

Q:\mit-136aus\ids letter.doc 07/04

PTC/SB/038 (02-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
O B Collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known			
	igini iyoga ta			Application Number	10/655,854		
INFORMATION DISCLOSURE				Filing Date	September 5, 2003		
STATEMENT BY APPLICANT			PLICANT	First Named Inventor	Rafael Reif		
				Art Unit	2811		
(Use as many sheets as necessary)			<i>षक्</i> या <i>))</i>	Examiner Name	Not Yet Assigned		
Sheet	1	of	1	Attorney Docket Number	MIT-136AUS		

		OTHER PRIOR ART–NON PATENT LITERATURE DOCUMENTS				
Examiner C Initials* N	Cite No.1	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issunumber(s), publisher, city and/or country where published.				
		OSAMU TABATA, Anisotropic Etching of Silicon in TMAH Solutions, Toyota Central Research and Development Laboratories, Inc., February 21, 1992, Pages 51-57, Japan				
		PHILIP M. SAILER, Creating 3D Circuits Using Transferred Films, Circuits & Devices, November 1997, Pages 27-30				
		TAKUJI MATSUMOTO, New Three-Dimensional Wafer Bonding Technology Using the Adhesive Injection Method, March, 1998, Peges 1217-1221, Jpn. J. Appl. Phys. Vol. 37 (1998)				
		A. FAN, Copper Wafer Bonding, Electrochemical and Solid-State Letters, 1999, Pages 534-536, Cambridge, Massachusetts				
		ARIFUR RAHMAN, Wire-Length Distribution of Three-Dimensional Integrated Circuits, 1999, Pages 233-235				
		VICTOR W.C. CHAN, Three Dimensional CMOS Integrated Circuits on Large Grain Polysillicon Films, EEE, Hong Kong University of Science and Technology, 2000, Pages 00-161 - 00-164 Hong Kong				
		K.W. LEE, Three-Dimensional Shared Memory Fabricated Using Wafer Stacking Technology, Dept. of Machine Intelligence and Systems Engineering, 2000, Pages 00-165 - 00-168, Hong Kong				
		KUAN-NENG CHEN, Microstructure Examination of Copper Wafer Bonding, Microsystem Technology Laboratories, December 20, 2000, Pages 331-335, Cambridge, Massachusetts				

Examiner		Date	•	
Signature	 •	Considered		

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through creation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to piece a check mark here if English language Translation is attached.

This collection of Information is required by 87 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.D. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commisso, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: MS Amendment, Commissioner for Patents, P. O. Box 1450. Alexandria, VA 22313-1450. MS Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.